Zenza BRONICA ETRS

AE-II FINDER E

Repair Manual 1——20

Parts List 21——26

BRONICA CO., LTD.

Use of the VOM (Volt-Ohm-Milliammeter) Tester

(1) In general, the tester is used for four types of measurements of (a) DC current, (b) AC voltage, (c) DC voltage and (d) resistances.
(2) Measurements of (c) DC voltage and (d) resistance are undertaken in the repair manual.
(3) When measuring (c) DC voltage and (d) resistances, as indicated in (2), the reading must always be made between two points.
(4) One of the points (base) must always be P-⊖ (GND) when measuring DC voltage or, in other words, measurements are based on the ground (earth) point. Furthermore, the black-colored minus (-) test lead must always be used on the grounding terminal, in this case.
(5) In the illustration of the tester range, measurements of DC voltage must always be made within the DCV range and measurements of resistance within the ohm (Ω) range.
(6) The numerals 250, 50, 10, etc., in the DCV range, show the maximum reading that is possible at that setting.
When checking the AE circuit of the ETR camera, however, only the three settings 10, 2.5 and 0.5 are used.
(7) The resistance settings shown as x100, x1K, etc., indicate the multiplications that must be made on the indicated reading and should be read as "times one hundred", etc. In other words, the reading must be multiplied by 100 which means that a reading of 10, when set to the x100 range, will be 1,000 ohms which is equivalent to 1 kiloohm. Or, in other words, the reading will be 1, in the same case, if the tester were to be set to the x1K range.
(8) Before making the resistance test, always be sure to calibrate the tester's circuit or, in other words, touch the two test prods together and adjust the knob (with the Ω indication) to get a zero reading.

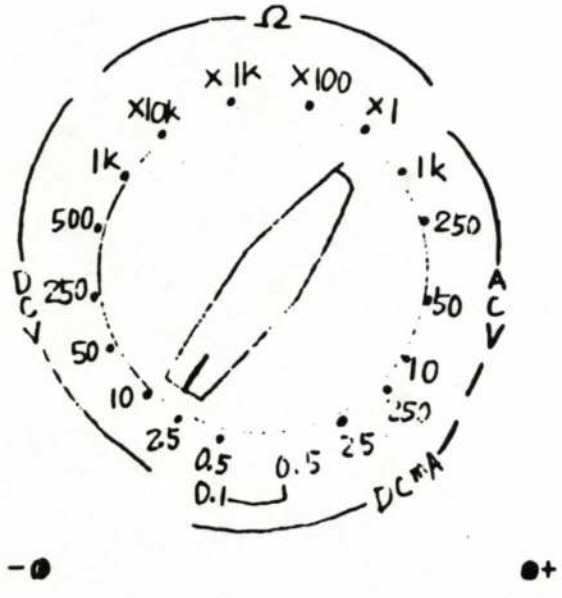
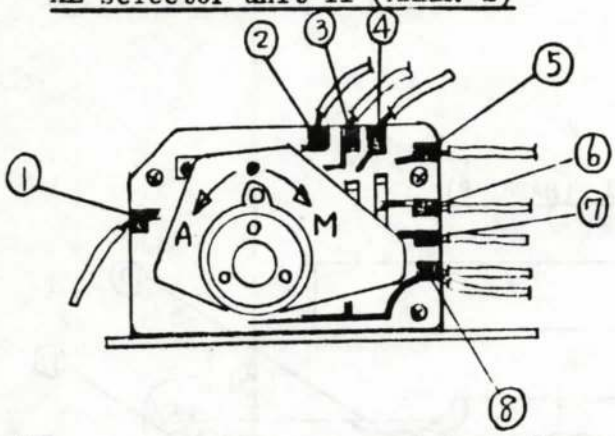


Fig-1

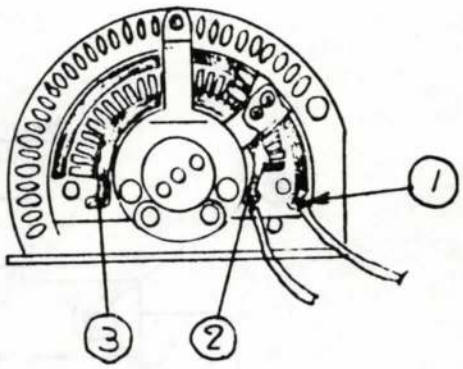
CAUTION
Extra care is required on handling of Main Circuit (1-726330) such as solder iron and working bench should be properly grounded.

AE selector unit-II (MARK: S)

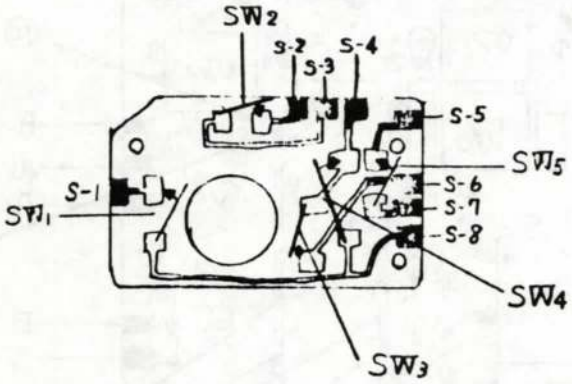


(The above figure shows OFF mode)

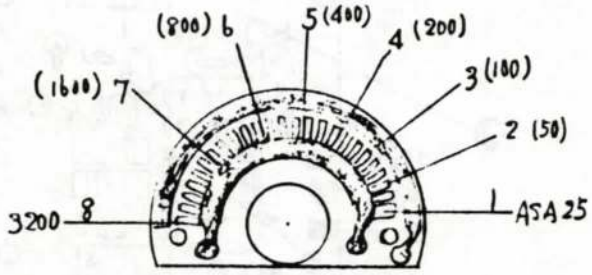
ASA base plate unit (MARK: A)



(The above figure shows ASA 100 setting)



(AE selector plate-II)



(ASA base plate)

MODE \ NO	SW1	SW2	SW3	SW4	SW5
A	OFF	ON	OFF	ON	ON
•	ON	OFF	OFF	OFF	OFF
M	ON	ON	ON	OFF	OFF

AE selector unit-II mode

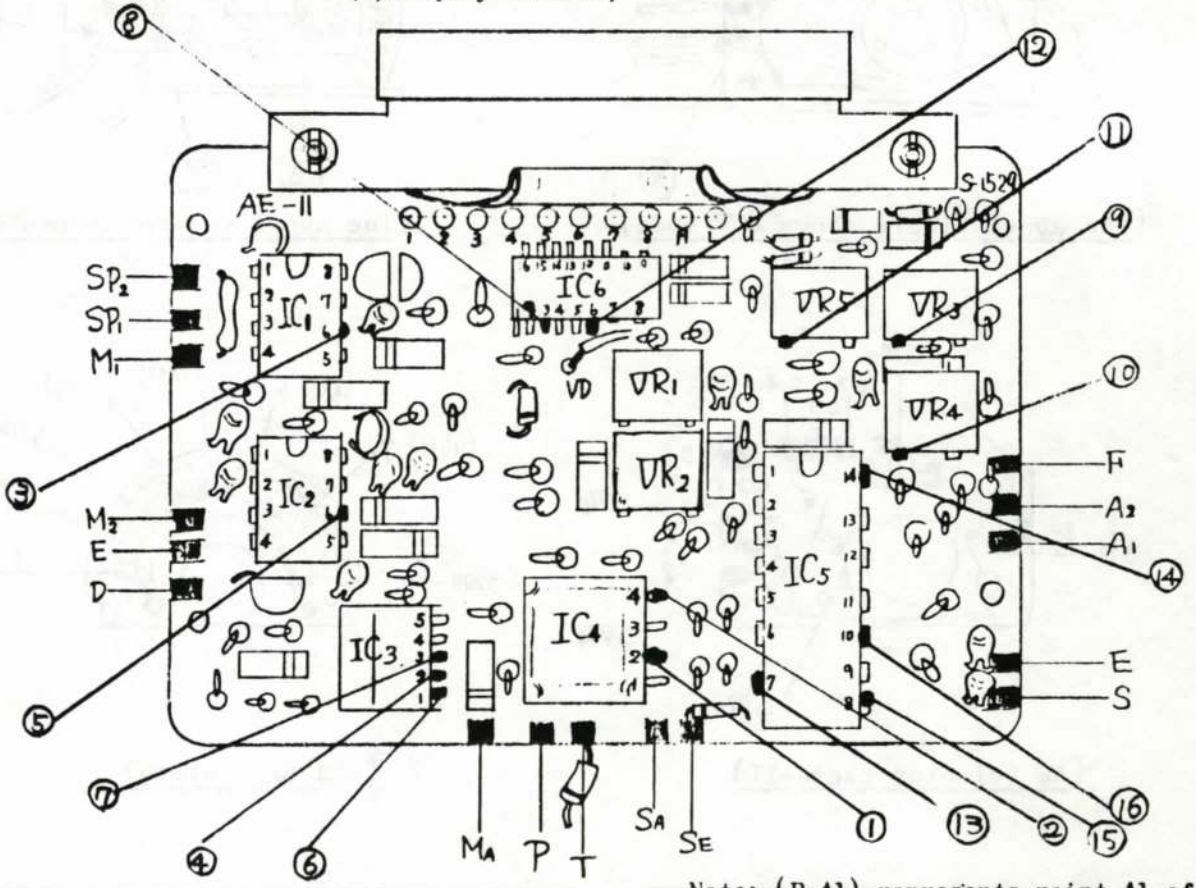
MODE \ NO	1	2	3	4	5	6	7	8
ASA	25	50	100	200	400	800	1600	3200
R値	0	200	400	600	800	1000	1200	1400

R値単位：Ω

ASA base plate unit mode

Fig-2

Main circuit-II (MARK: P)
(w/display circuit)



Note: (P-A1) represents point A1 of main circuit-II (P), and as is the same manner (C-5) represents point 5 of AE contact pin base plate-II.

AE contact pin base plate-II (MARK: C)

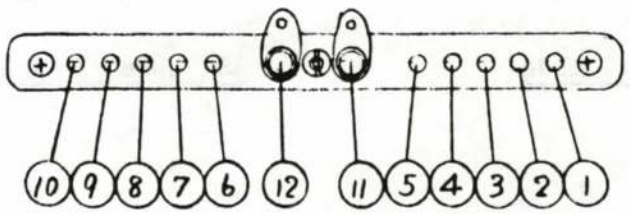


Fig-3

Wiring diagram of AE-II contact pin base plate-II. Silicon photo cell.

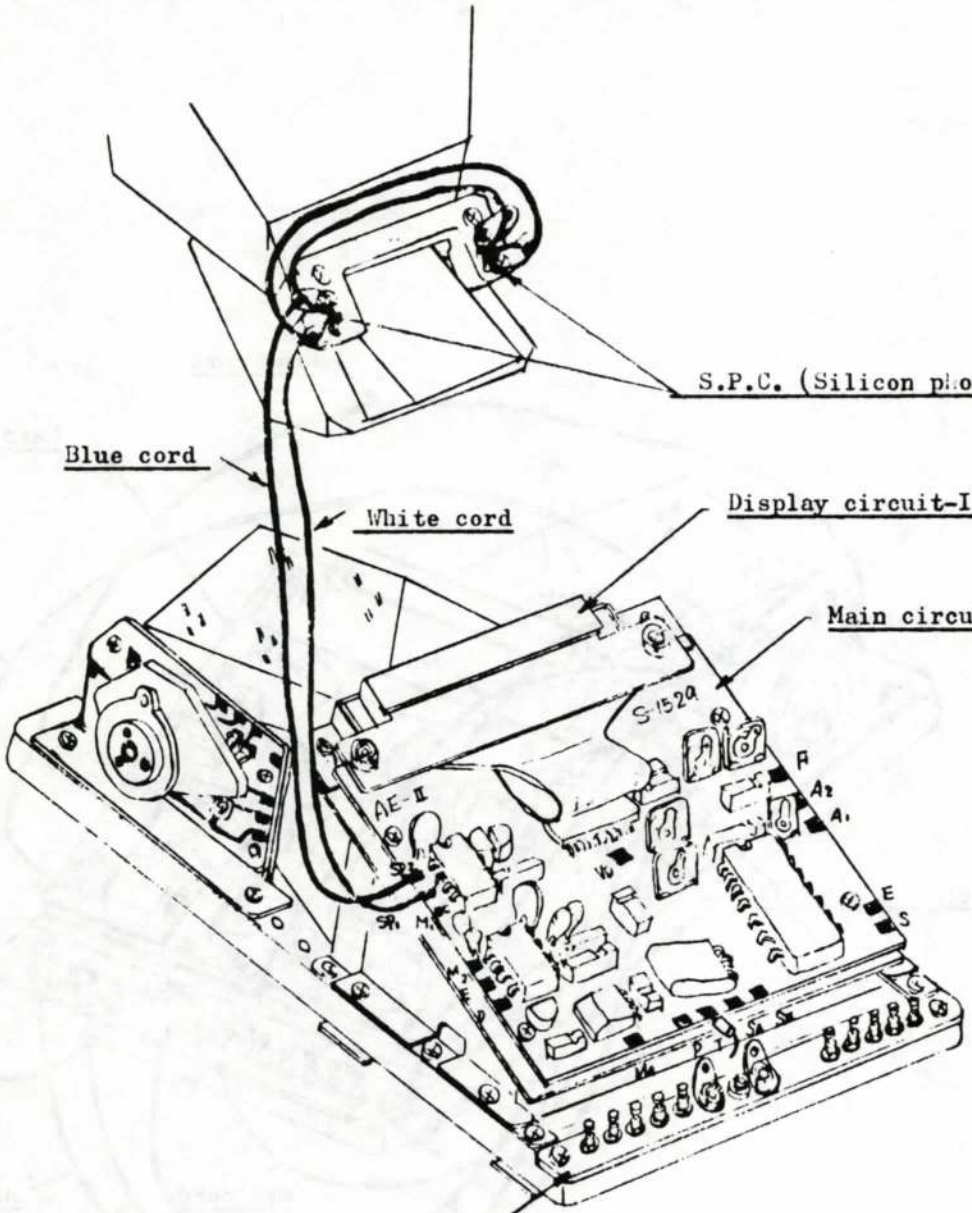


Fig-5

Wiring diagram of AE selector unit-II & AE contact pin base plate

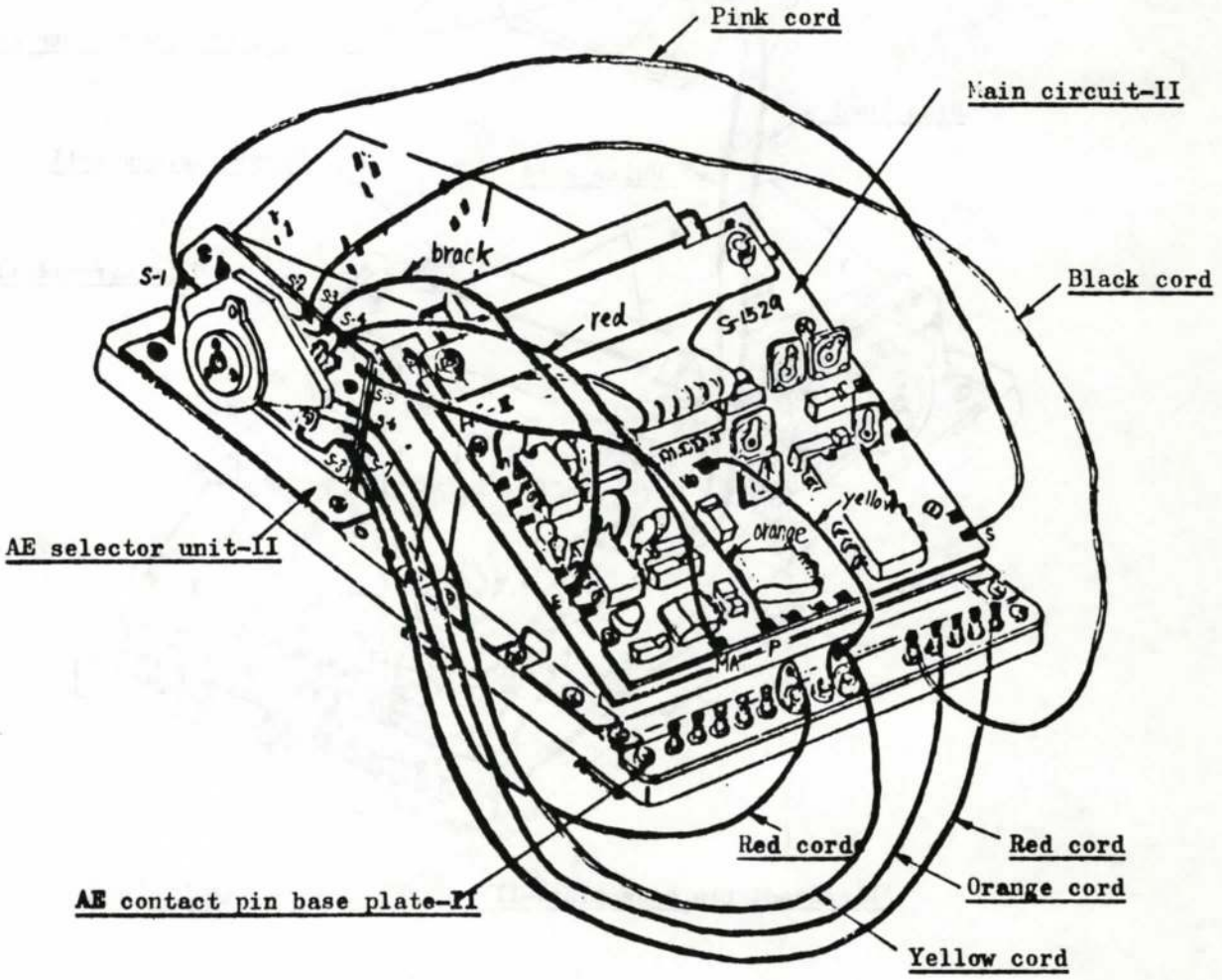


Fig-6

Wiring diagram of AE contact pin base plate-II & ASA base plate unit & Display button unit-II

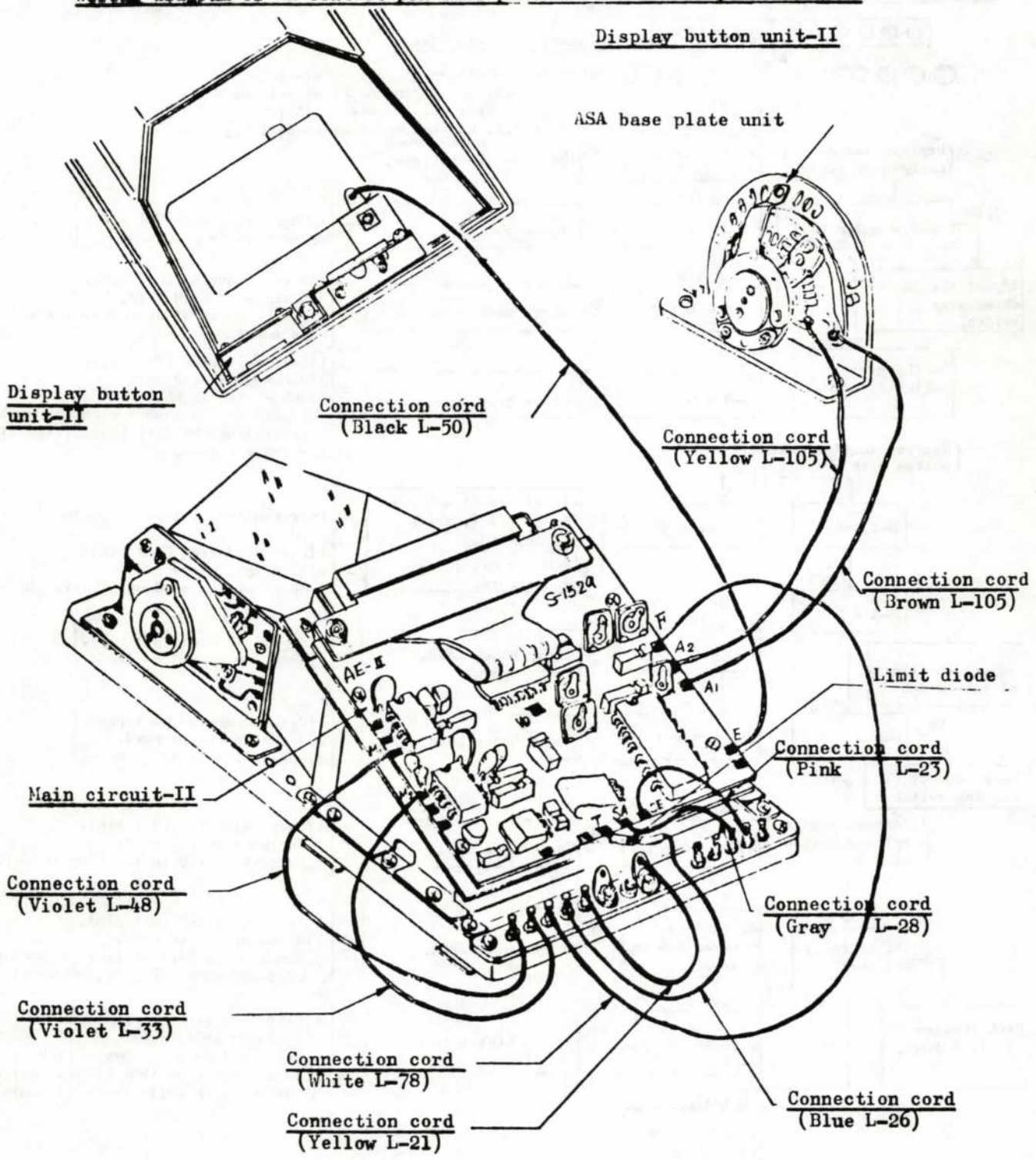
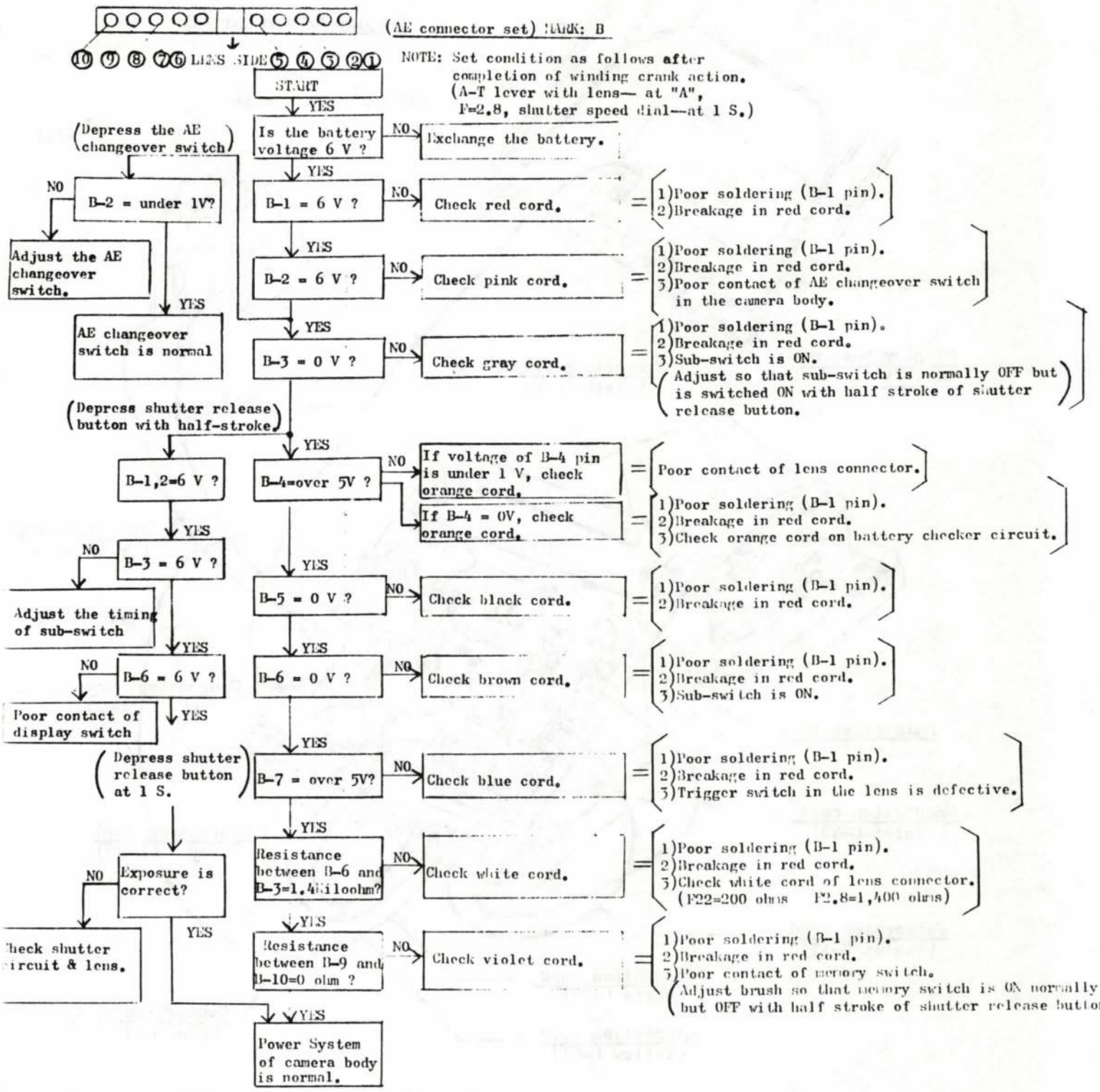


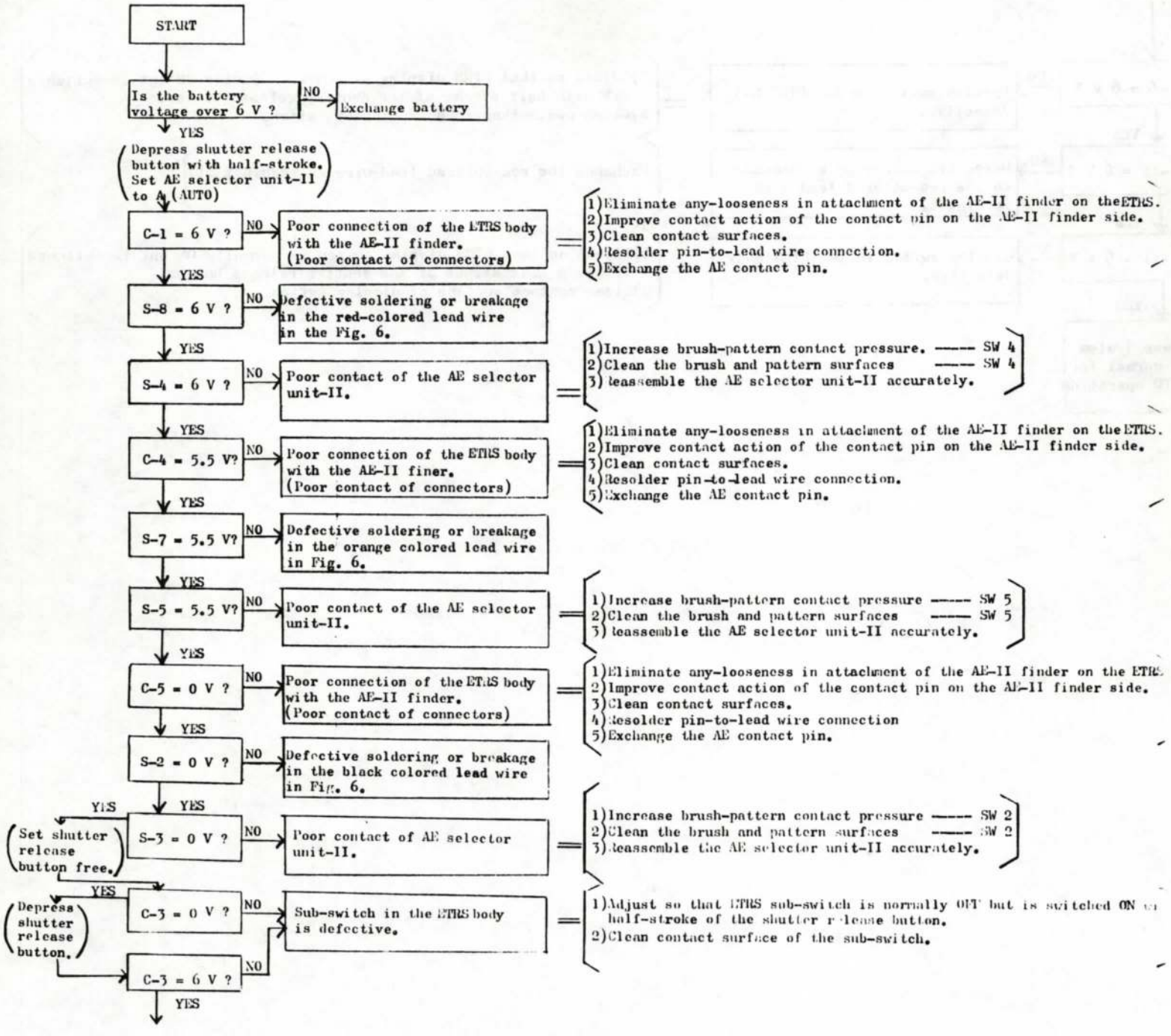
Fig-7

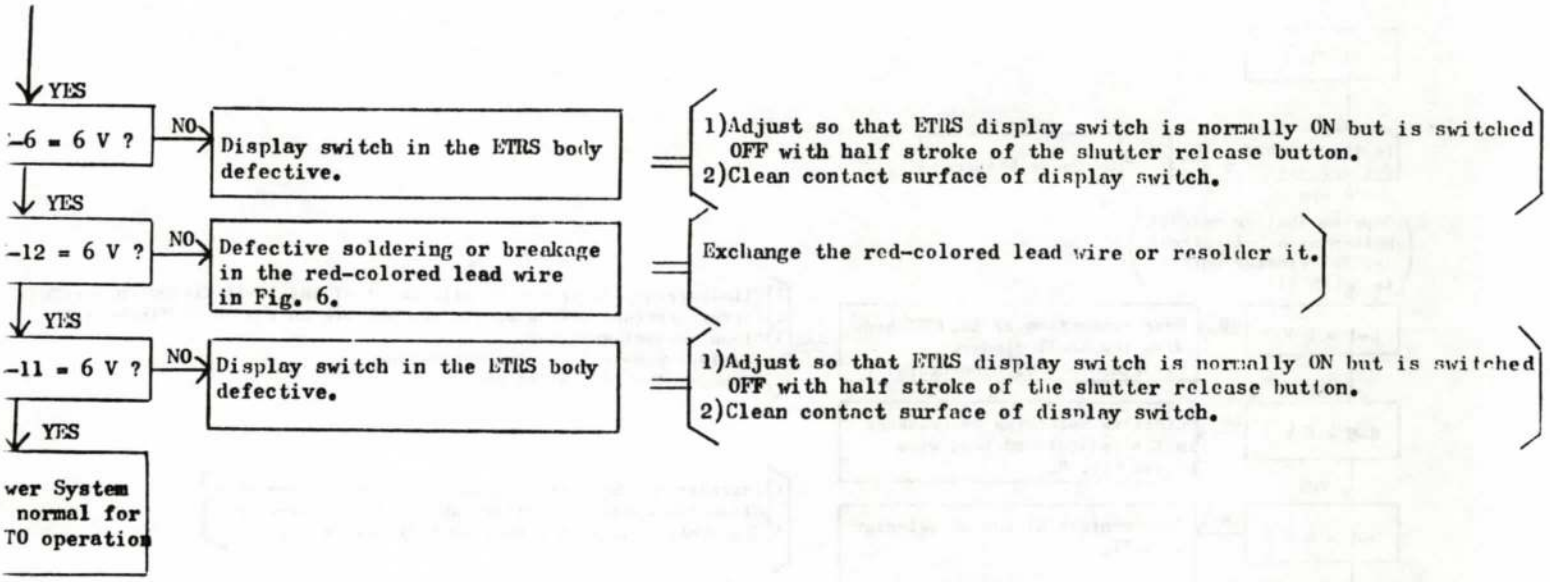
Note: The numbers next to "L" in the parentheses indicates length of each cord in mm.

(1) Checking the Power System (Body side only)

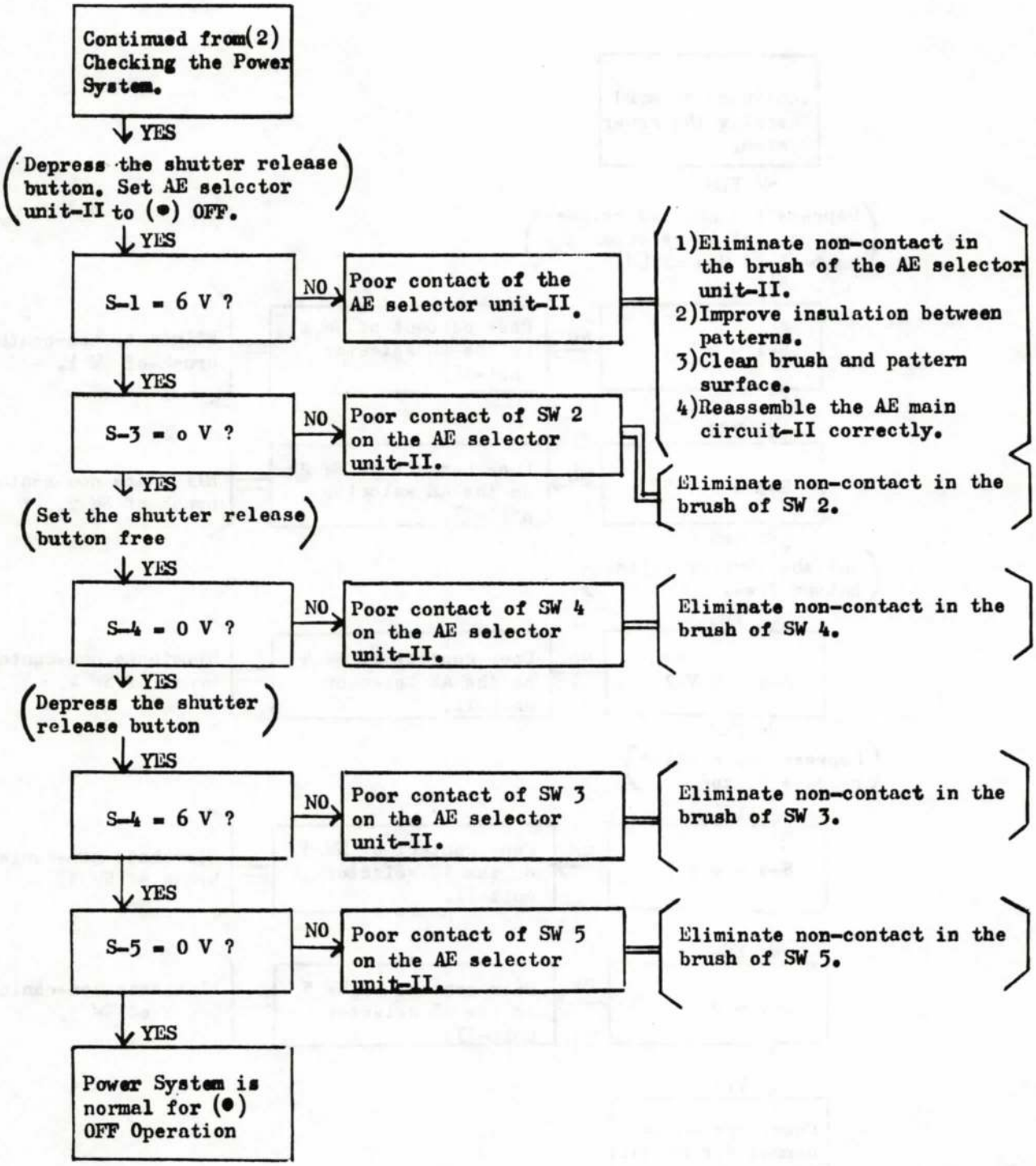

(AE connector set) MARK: B
⑩ ⑨ ⑧ ⑦ ⑥ LENS SIDE ⑤ ④ ③ ② ①
NOTE: Set condition as follows after completion of winding crank action. (A-T lever with lens— at "A", F=2.8, shutter speed dial—at 1 S.)
START
YES
Is the battery voltage 6 V ?
NO
Exchange the battery.
(Depress the AE changeover switch)
B-2 = under 1V?
B-1 = 6 V ?
Check red cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord.
Adjust the AE changeover switch.
B-2 = 6 V ?
Check pink cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Poor contact of AE changeover switch in the camera body.
AE changeover switch is normal
B-3 = 0 V ?
Check gray cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Sub-switch is ON. (Adjust so that sub-switch is normally OFF but is switched ON with half stroke of shutter release button.
(Depress shutter release button with half-stroke)
B-1,2=6 V ?
B-4=over 5V ?
If voltage of B-4 pin is under 1 V, check orange cord.
= Poor contact of lens connector.
If B-4 = 0V, check orange cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Check orange cord on battery checker circuit.
B-3 = 6 V ?
Adjust the timing of sub-switch
B-5 = 0 V ?
Check black cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord.
B-6 = 6 V ?
B-6 = 0 V ?
Check brown cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Sub-switch is ON.
Poor contact of display switch
(Depress shutter release button at 1 S.)
B-7 = over 5V?
Check blue cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Trigger switch in the lens is defective.
Exposure is correct?
Resistance between B-6 and B-3=1.4Kiloohm?
Check white cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Check white cord of lens connector. (F22=200 ohms F2.8=1,400 ohms)
Check shutter circuit & lens.
Resistance between B-9 and B-10=0 ohm ?
Check violet cord.
= 1)Poor soldering (B-1 pin). 2)Breakage in red cord. 3)Poor contact of memory switch. (Adjust brush so that memory switch is ON normally but OFF with half stroke of shutter release button.)
Power System of camera body is normal.

(2) Checking of Power System (AUTO)

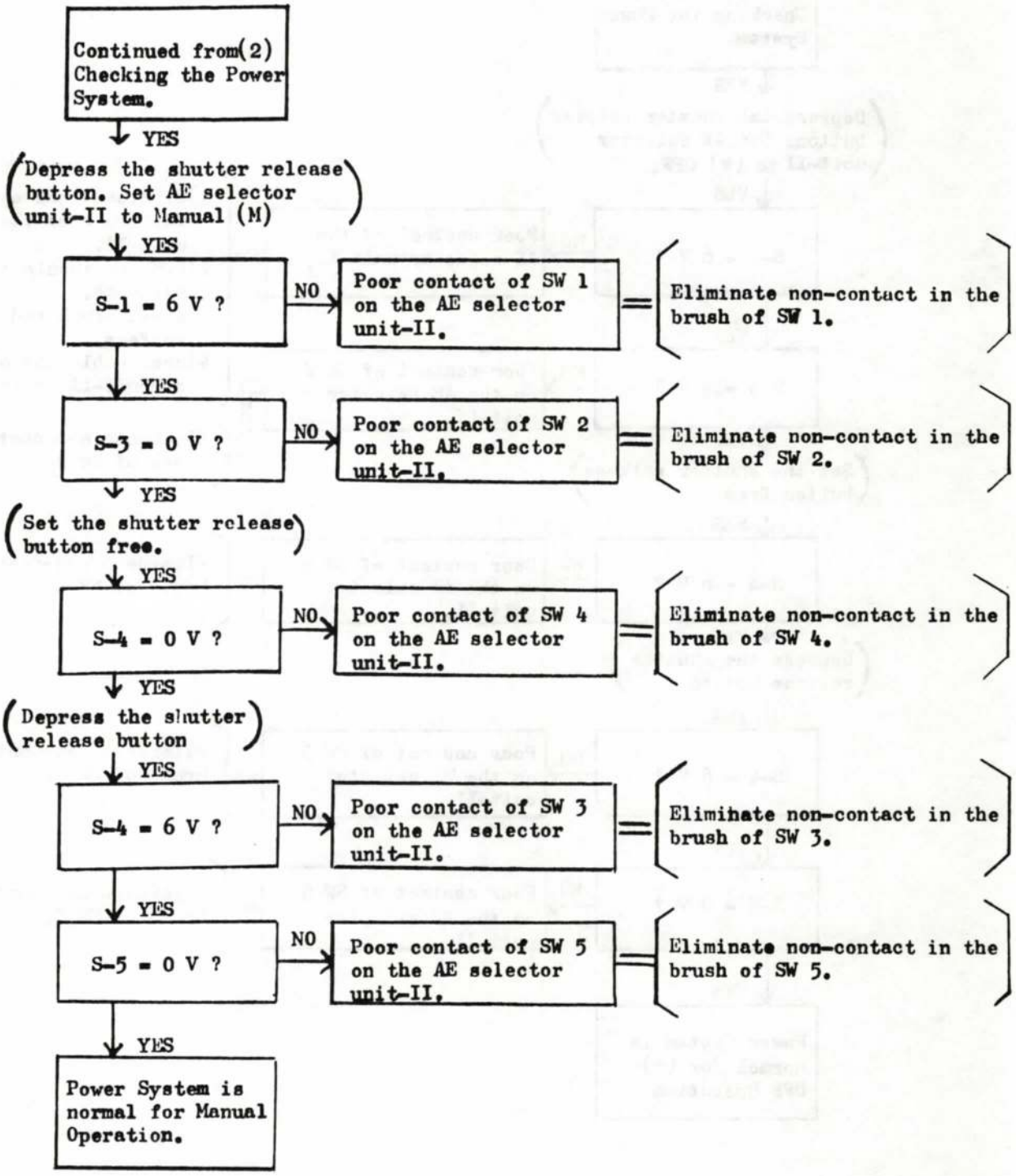

START
Is the battery voltage over 6 V ?
NO
Exchange battery
YES
Depress shutter release button with half-stroke. Set AE selector unit-II to A (AUTO)
C-1 = 6 V ?
NO
Poor connection of the ETRS body with the AE-II finder. (Poor contact of connectors)
1)Eliminate any-looseness in attachment of the AE-II finder on the ETRS.
2)Improve contact action of the contact pin on the AE-II finder side.
3)Clean contact surfaces.
4)Resolder pin-to-lead wire connection.
5)Exchange the AE contact pin.
YES
S-8 = 6 V ?
NO
Defective soldering or breakage in the red-colored lead wire in the Fig. 6.
YES
S-4 = 6 V ?
NO
Poor contact of the AE selector unit-II.
1)Increase brush-pattern contact pressure. ----- SW 4
2)Clean the brush and pattern surfaces ----- SW 4
3)Reassemble the AE selector unit-II accurately.
YES
C-4 = 5.5 V?
NO
Poor connection of the ETRS body with the AE-II finer. (Poor contact of connectors)
1)Eliminate any-looseness in attachment of the AE-II finder on the ETRS.
2)Improve contact action of the contact pin on the AE-II finder side.
3)Clean contact surfaces.
4)Resolder pin-to-lead wire connection.
5)Exchange the AE contact pin.
YES
S-7 = 5.5 V?
NO
Defective soldering or breakage in the orange colored lead wire in Fig. 6.
YES
S-5 = 5.5 V?
NO
Poor contact of the AE selector unit-II.
1)Increase brush-pattern contact pressure ----- SW 5
2)Clean the brush and pattern surfaces ----- SW 5
3)Reassemble the AE selector unit-II accurately.
YES
C-5 = 0 V ?
NO
Poor connection of the ETRS body with the AE-II finder. (Poor contact of connectors)
1)Eliminate any-looseness in attachment of the AE-II finder on the ETRS.
2)Improve contact action of the contact pin on the AE-II finder side.
3)Clean contact surfaces.
4)Resolder pin-to-lead wire connection
5)Exchange the AE contact pin.
YES
S-2 = 0 V ?
NO
Defective soldering or breakage in the black colored lead wire in Fig. 6.
YES
Set shutter release button free.
YES
S-3 = 0 V ?
NO
Poor contact of AE selector unit-II.
1)Increase brush-pattern contact pressure ----- SW 2
2)Clean the brush and pattern surfaces ----- SW 2
3)Reassemble the AE selector unit-II accurately.
YES
Depress shutter release button.
C-3 = 0 V ?
NO
Sub-switch in the ETRS body is defective.
1)Adjust so that ETRS sub-switch is normally OFF but is switched ON at half-stroke of the shutter release button.
2)Clean contact surface of the sub-switch.
C-3 = 6 V ?
NO
YES


YES
-6 = 6 V ?
NO
Display switch in the ETRS body defective.
1)Adjust so that ETRS display switch is normally ON but is switched OFF with half stroke of the shutter release button.
2)Clean contact surface of display switch.
YES
-12 = 6 V ?
NO
Defective soldering or breakage in the red-colored lead wire in Fig. 6.
Exchange the red-colored lead wire or resolder it.
YES
-11 = 6 V ?
NO
Display switch in the ETRS body defective.
1)Adjust so that ETRS display switch is normally ON but is switched OFF with half stroke of the shutter release button.
2)Clean contact surface of display switch.
YES
wer System
normal for
TO operation

(3) Checking the Power System (●) OFF

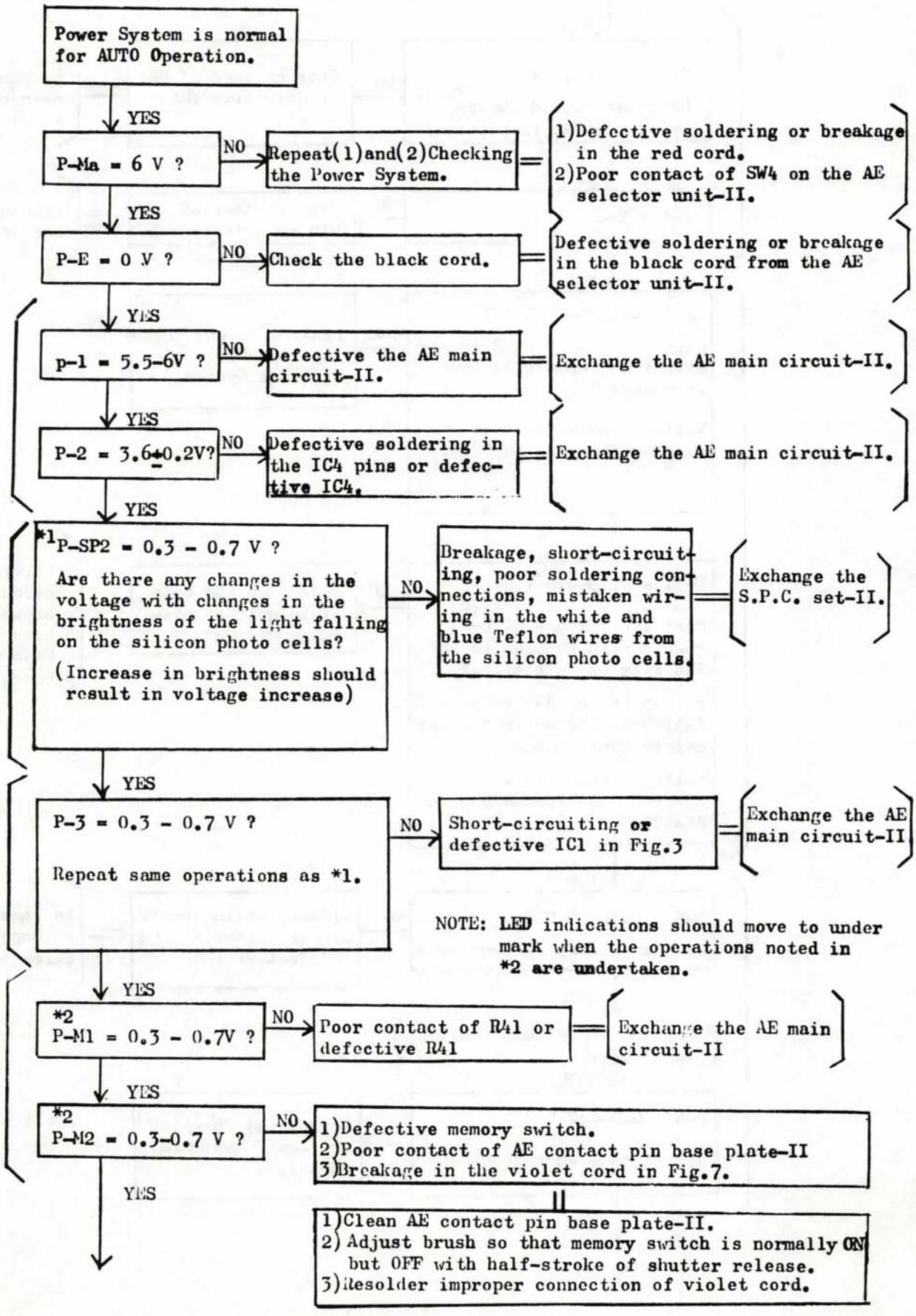

Continued from(2) Checking the Power System.
YES
Depress the shutter release button. Set AE selector unit-II to (●) OFF.
YES
S-1 = 6 V ?
NO
Poor contact of the AE selector unit-II.
1)Eliminate non-contact in the brush of the AE selector unit-II.
2)Improve insulation between patterns.
3)Clean brush and pattern surface.
4)Reassemble the AE main circuit-II correctly.
YES
S-3 = o V ?
NO
Poor contact of SW 2 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 2.
YES
Set the shutter release button free
YES
S-4 = 0 V ?
NO
Poor contact of SW 4 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 4.
YES
Depress the shutter release button
YES
S-4 = 6 V ?
NO
Poor contact of SW 3 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 3.
YES
S-5 = 0 V ?
NO
Poor contact of SW 5 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 5.
YES
Power System is normal for (●) OFF Operation

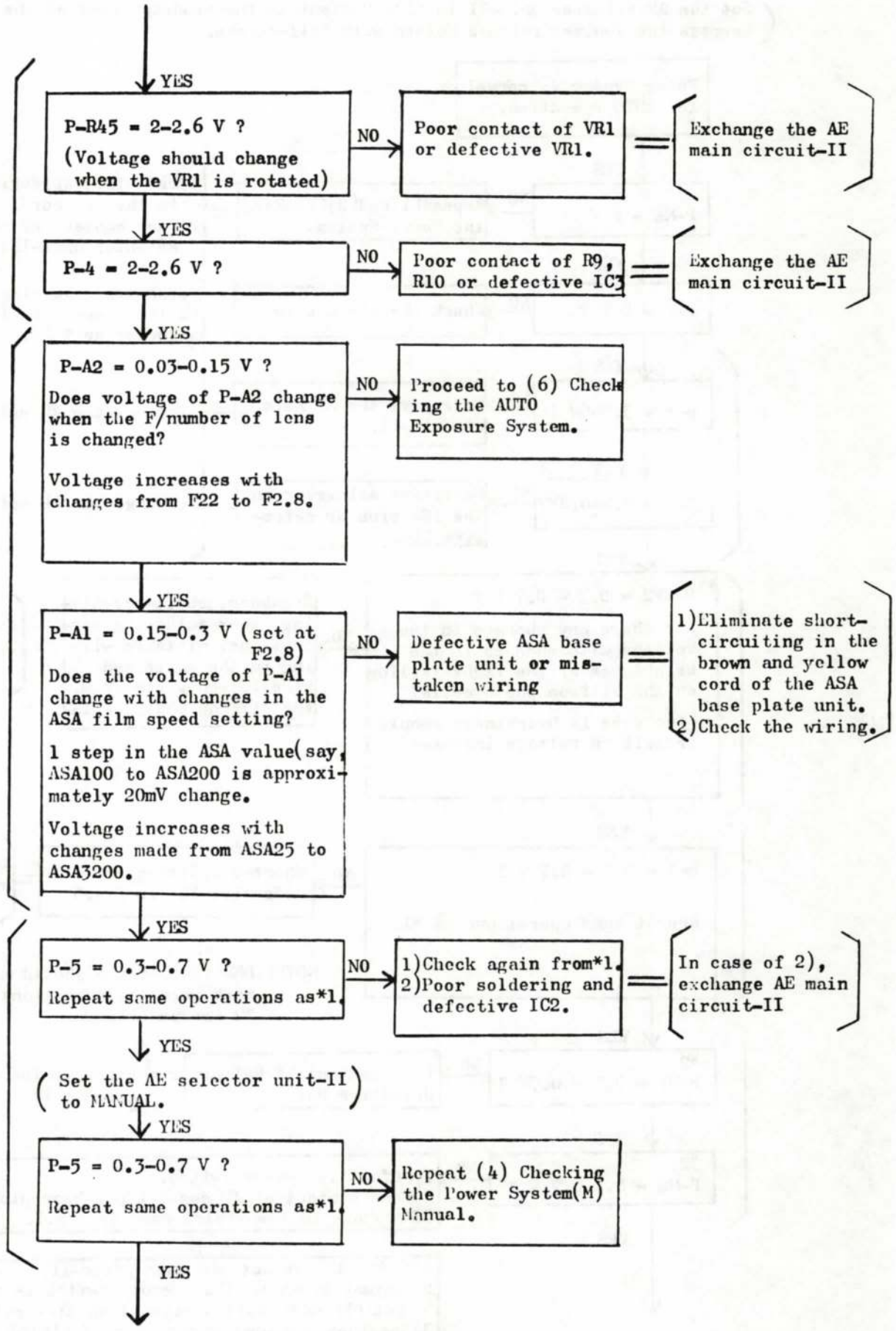
(4) Checking the Power System (M) Manual

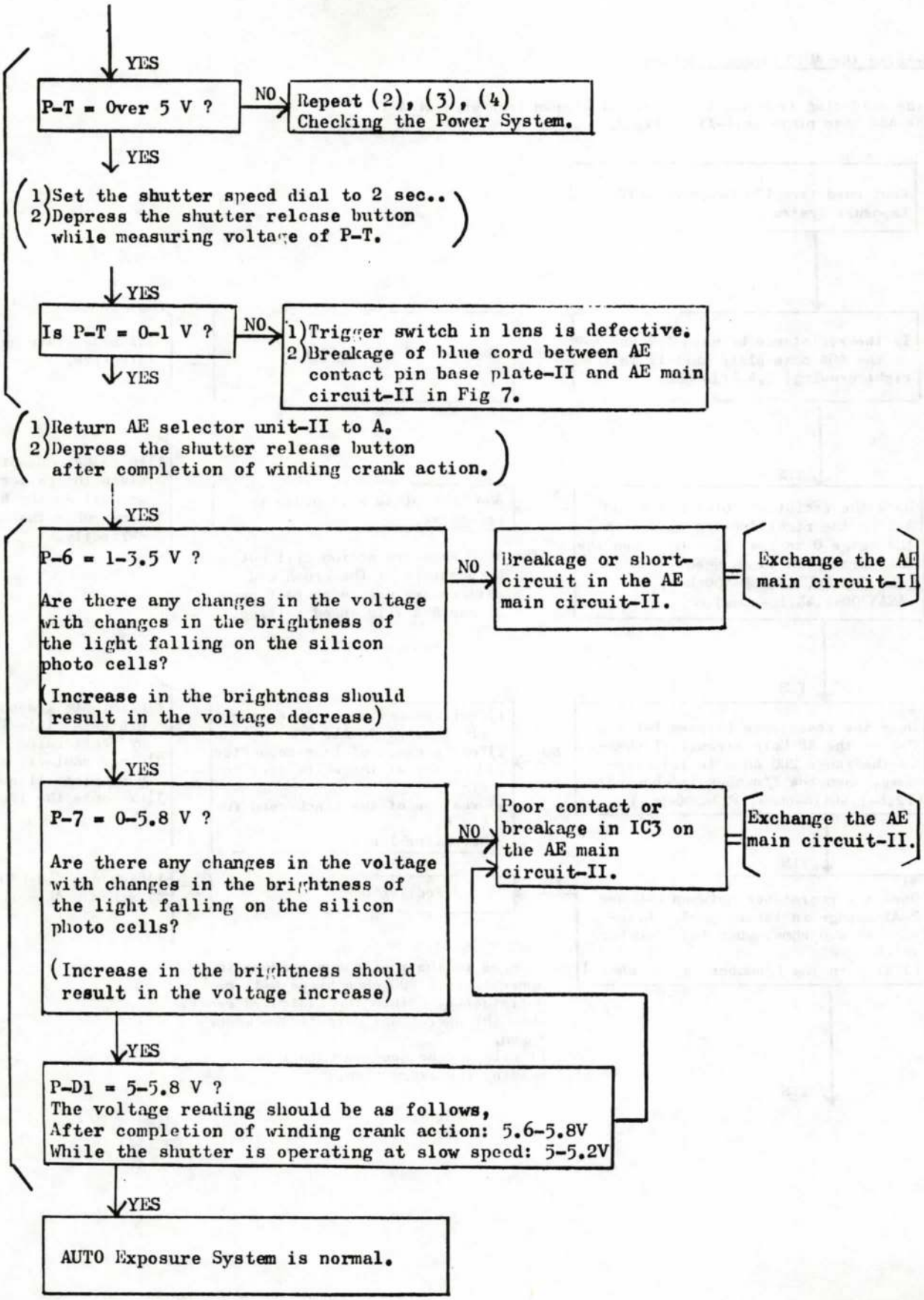

Continued from(2) Checking the Power System.
YES
Depress the shutter release button. Set AE selector unit-II to Manual (M)
YES
S-1 = 6 V ?
NO
Poor contact of SW 1 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 1.
YES
S-3 = 0 V ?
NO
Poor contact of SW 2 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 2.
YES
Set the shutter release button free.
YES
S-4 = 0 V ?
NO
Poor contact of SW 4 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 4.
YES
Depress the shutter release button
YES
S-4 = 6 V ?
NO
Poor contact of SW 3 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 3.
YES
S-5 = 0 V ?
NO
Poor contact of SW 5 on the AE selector unit-II.
Eliminate non-contact in the brush of SW 5.
YES
Power System is normal for Manual Operation.

(5) Checking the AUTO Exposure System

(Set the AE selector unit-II to "A". Manipulate the winding crank on the body
Depress the shutter release button with half-stroke.)

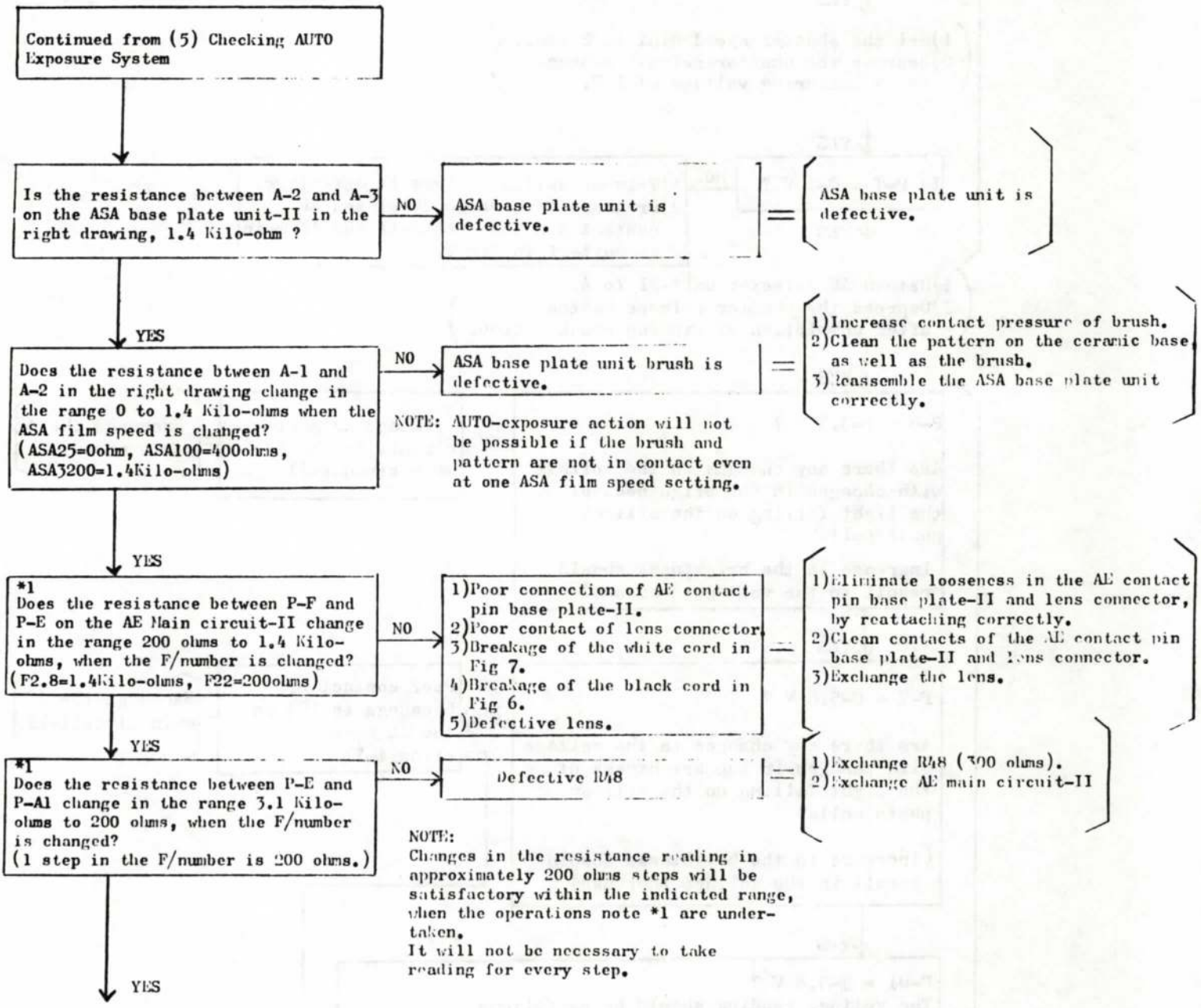

Power System is normal for AUTO Operation.
YES
P-Ma = 6 V ?
NO
Repeat(1)and(2)Checking the Power System.
1)Defective soldering or breakage in the red cord.
2)Poor contact of SW4 on the AE selector unit-II.
YES
P-E = 0 V ?
NO
Check the black cord.
Defective soldering or breakage in the black cord from the AE selector unit-II.
YES
p-1 = 5.5-6V ?
NO
Defective the AE main circuit-II.
Exchange the AE main circuit-II.
YES
P-2 = 3.6±0.2V?
NO
Defective soldering in the IC4 pins or defective IC4.
Exchange the AE main circuit-II.
YES
*1 P-SP2 = 0.3 - 0.7 V ?
Are there any changes in the voltage with changes in the brightness of the light falling on the silicon photo cells?
(Increase in brightness should result in voltage increase)
NO
Breakage, short-circuiting, poor soldering connections, mistaken wiring in the white and blue Teflon wires from the silicon photo cells.
Exchange the S.P.C. set-II.
YES
P-3 = 0.3 - 0.7 V ?
Repeat same operations as *1.
NO
Short-circuiting or defective IC1 in Fig.3
Exchange the AE main circuit-II
NOTE: LED indications should move to under mark when the operations noted in *2 are undertaken.
YES
*2 P-M1 = 0.3 - 0.7V ?
NO
Poor contact of R41 or defective R41
Exchange the AE main circuit-II
YES
*2 P-M2 = 0.3-0.7 V ?
NO
1)Defective memory switch.
2)Poor contact of AE contact pin base plate-II
3)Breakage in the violet cord in Fig.7.
1)Clean AE contact pin base plate-II.
2) Adjust brush so that memory switch is normally ON but OFF with half-stroke of shutter release.
3)Resolder improper connection of violet cord.
YES

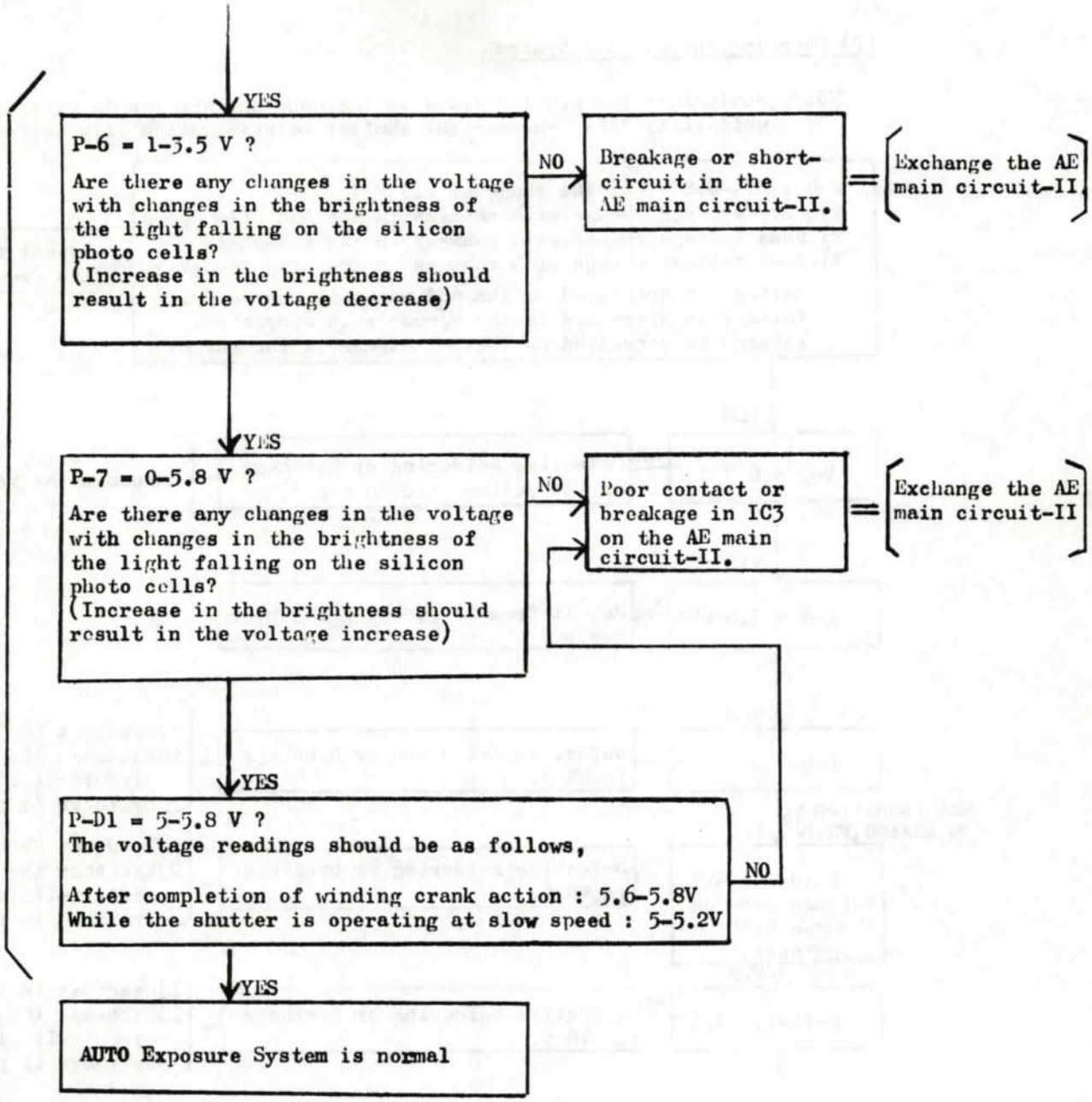

YES
P-R45 = 2-2.6 V ?
(Voltage should change when the VR1 is rotated)
NO
Poor contact of VR1 or defective VR1.
Exchange the AE main circuit-II
YES
P-4 = 2-2.6 V ?
NO
Poor contact of R9, R10 or defective IC3
Exchange the AE main circuit-II
YES
P-A2 = 0.03-0.15 V ?
Does voltage of P-A2 change when the F/number of lens is changed?
Voltage increases with changes from F22 to F2.8.
NO
Proceed to (6) Checking the AUTO Exposure System.
YES
P-A1 = 0.15-0.3 V (set at F2.8)
Does the voltage of P-A1 change with changes in the ASA film speed setting?
1 step in the ASA value(say, ASA100 to ASA200 is approximately 20mV change.
Voltage increases with changes made from ASA25 to ASA3200.
NO
Defective ASA base plate unit or mistaken wiring
1)Eliminate short-circuiting in the brown and yellow cord of the ASA base plate unit.
2)Check the wiring.
YES
P-5 = 0.3-0.7 V ?
Repeat same operations as*1.
NO
1)Check again from*1.
2)Poor soldering and defective IC2.
In case of 2), exchange AE main circuit-II
YES
(Set the AE selector unit-II to MANUAL.
YES
P-5 = 0.3-0.7 V ?
Repeat same operations as*1.
NO
Repeat (4) Checking the Power System(M) Manual.
YES


YES
P-T = Over 5 V ?
NO
Repeat (2), (3), (4) Checking the Power System.
YES
1)Set the shutter speed dial to 2 sec..
2)Depress the shutter release button while measuring voltage of P-T.
YES
Is P-T = 0-1 V ?
NO
1)Trigger switch in lens is defective.
2)Breakage of blue cord between AE contact pin base plate-II and AE main circuit-II in Fig 7.
YES
1)Return AE selector unit-II to A.
2)Depress the shutter release button after completion of winding crank action.
YES
P-6 = 1-3.5 V ?
Are there any changes in the voltage with changes in the brightness of the light falling on the silicon photo cells?
(Increase in the brightness should result in the voltage decrease)
NO
Breakage or short-circuit in the AE main circuit-II.
Exchange the AE main circuit-II.
YES
P-7 = 0-5.8 V ?
Are there any changes in the voltage with changes in the brightness of the light falling on the silicon photo cells?
(Increase in the brightness should result in the voltage increase)
NO
Poor contact or breakage in IC3 on the AE main circuit-II.
Exchange the AE main circuit-II.
YES
P-D1 = 5-5.8 V ?
The voltage reading should be as follows,
After completion of winding crank action: 5.6-5.8V
While the shutter is operating at slow speed: 5-5.2V
YES
AUTO Exposure System is normal.

Checking the AUTO Exposure System

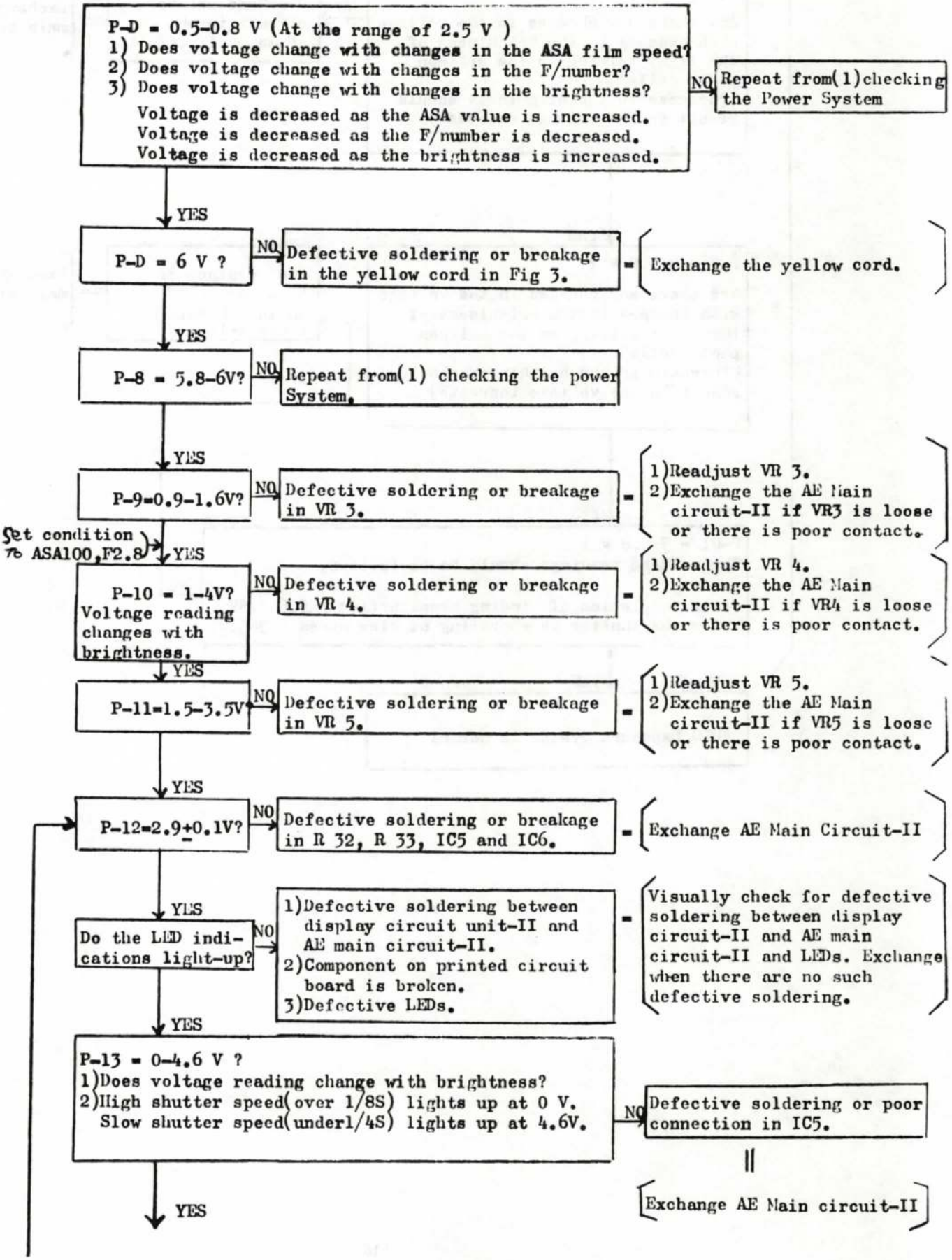
- the soldering iron and disconnect the brown lead wire at A-1 the ASA base plate unit-II in Fig 2.

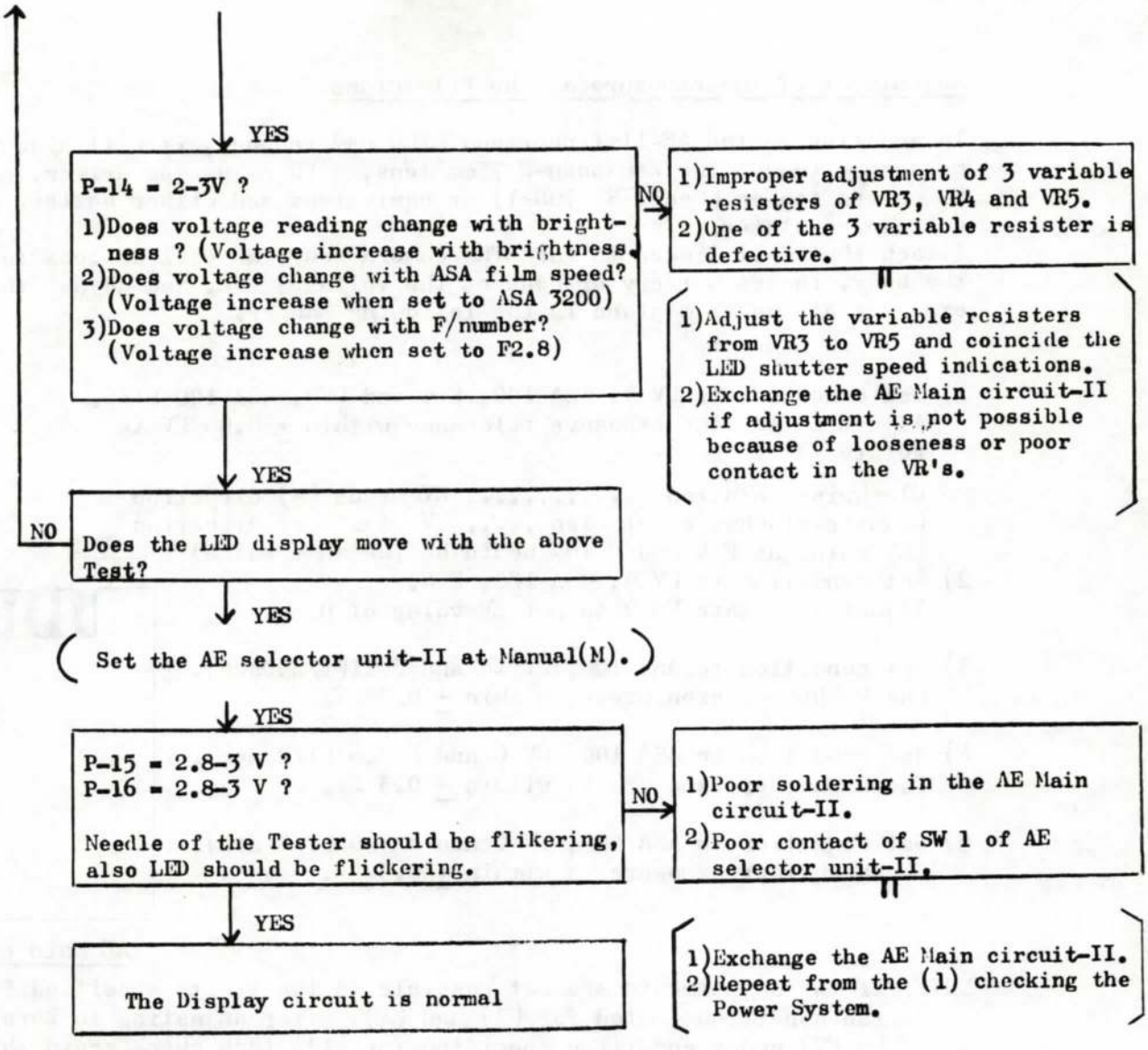

Continued from (5) Checking AUTO Exposure System
Is the resistance between A-2 and A-3 on the ASA base plate unit-II in the right drawing, 1.4 Kilo-ohm ?
NO
ASA base plate unit is defective.
=
ASA base plate unit is defective.
YES
Does the resistance btween A-1 and A-2 in the right drawing change in the range 0 to 1.4 Kilo-olms when the ASA film speed is changed? (ASA25=0ohm, ASA100=400olms, ASA3200=1.4Kilo-olms)
NO
ASA base plate unit brush is defective.
=
1)Increase contact pressure of brush.
2)Clean the pattern on the ceramic base as well as the brush.
3)Reassemble the ASA base plate unit correctly.
NOTE: AUTO-exposure action will not be possible if the brush and pattern are not in contact even at one ASA film speed setting.
YES
*1
Does the resistance between P-F and P-E on the AE Main circuit-II change in the range 200 olms to 1.4 Kilo-ohms, when the F/number is changed? (F2.8=1.4Kilo-olms, F22=200olms)
NO
1)Poor connection of AE contact pin base plate-II.
2)Poor contact of lens connector.
3)Breakage of the white cord in Fig 7.
4)Breakage of the black cord in Fig 6.
5)Defective lens.
=
1)Eliminate looseness in the AE contact pin base plate-II and lens connector, by reattaching correctly.
2)Clean contacts of the AE contact pin base plate-II and lens connector.
3)Exchange the lens.
YES
*1
Does the resistance between P-E and P-A1 change in the range 3.1 Kilo-olms to 200 olms, when the F/number is changed? (1 step in the F/number is 200 olms.)
NO
Defective R48
=
1)Exchange R48 (300 olms).
2)Exchange AE main circuit-II
NOTE:
Changes in the resistance reading in approximately 200 olms steps will be satisfactory within the indicated range, when the operations note *1 are undertaken.
It will not be necessary to take reading for every step.
YES


YES
P-6 = 1-3.5 V ?
Are there any changes in the voltage with changes in the brightness of the light falling on the silicon photo cells?
(Increase in the brightness should result in the voltage decrease)
NO
Breakage or short-circuit in the AE main circuit-II.
Exchange the AE main circuit-II.
YES
P-7 = 0-5.8 V ?
Are there any changes in the voltage with changes in the brightness of the light falling on the silicon photo cells?
(Increase in the brightness should result in the voltage increase)
NO
Poor contact or breakage in IC3 on the AE main circuit-II.
Exchange the AE main circuit-II
YES
P-D1 = 5-5.8 V ?
The voltage readings should be as follows,
After completion of winding crank action : 5.6-5.8V
While the shutter is operating at slow speed : 5-5.2V
NO
YES
AUTO Exposure System is normal

(7) Checking the Display System

NOTE: Manipulate the winding crank on the body and set the AE selector unit-II to "A". Depresse the shutter release button with half-stroke.


P-D = 0.5-0.8 V (At the range of 2.5 V)
1) Does voltage change with changes in the ASA film speed?
2) Does voltage change with changes in the F/number?
3) Does voltage change with changes in the brightness?
Voltage is decreased as the ASA value is increased.
Voltage is decreased as the F/number is decreased.
Voltage is decreased as the brightness is increased.
NO
Repeat from(1)checking the Power System
YES
P-D = 6 V ?
NO
Defective soldering or breakage in the yellow cord in Fig 3.
= Exchange the yellow cord.
YES
P-8 = 5.8-6V?
NO
Repeat from(1) checking the power System.
YES
P-9=0.9-1.6V?
NO
Defective soldering or breakage in VR 3.
= 1)Readjust VR 3. 2)Exchange the AE Main circuit-II if VR3 is loose or there is poor contact.
Set condition to ASA100,F2.8
YES
P-10 = 1-4V? Voltage reading changes with brightness.
NO
Defective soldering or breakage in VR 4.
= 1)Readjust VR 4. 2)Exchange the AE Main circuit-II if VR4 is loose or there is poor contact.
YES
P-11=1.5-3.5V
NO
Defective soldering or breakage in VR 5.
= 1)Readjust VR 5. 2)Exchange the AE Main circuit-II if VR5 is loose or there is poor contact.
YES
P-12=2.9±0.1V?
NO
Defective soldering or breakage in R 32, R 33, IC5 and IC6.
= Exchange AE Main Circuit-II
YES
Do the LED indications light-up?
NO
1)Defective soldering between display circuit unit-II and AE main circuit-II.
2)Component on printed circuit board is broken.
3)Defective LEDs.
= Visually check for defective soldering between display circuit-II and AE main circuit-II and LEDs. Exchange when there are no such defective soldering.
YES
P-13 = 0-4.6 V ?
1)Does voltage reading change with brightness?
2)High shutter speed(over 1/8S) lights up at 0 V.
Slow shutter speed(under1/4S) lights up at 4.6V.
NO
Defective soldering or poor connection in IC5.
=
Exchange AE Main circuit-II
YES


YES
P-14 = 2-3V ?
1)Does voltage reading change with brightness ? (Voltage increase with brightness)
2)Does voltage change with ASA film speed? (Voltage increase when set to ASA 3200)
3)Does voltage change with F/number? (Voltage increase when set to F2.8)
NO
1)Improper adjustment of 3 variable resisters of VR3, VR4 and VR5.
2)One of the 3 variable resister is defective.
1)Adjust the variable resisters from VR3 to VR5 and coincide the LED shutter speed indications.
2)Exchange the AE Main circuit-II if adjustment is not possible because of looseness or poor contact in the VR's.
YES
NO
Does the LED display move with the above Test?
YES
Set the AE selector unit-II at Manual(M).
YES
P-15 = 2.8-3 V ?
P-16 = 2.8-3 V ?
Needle of the Tester should be flikering, also LED should be flickering.
NO
1)Poor soldering in the AE Main circuit-II.
2)Poor contact of SW 1 of AE selector unit-II.
YES
The Display circuit is normal
1)Exchange the AE Main circuit-II.
2)Repeat from the (1) checking the Power System.

Adjustment of the Exposure at the Film Plane

In addition to the AE-II finder and ETRS camera body, it will also be necessary to use the Zenzanon-E 75mm lens, a VR adjusting driver, an EE camera tester (Model ST 70B-1) or equivalent and either battery or voltage regulator.
Attach the AE-II finder to the ETRS camera body, as well as lens to the body, insert battery or connect the voltage, etc. and adjust the exposure at the film plane in the following manner.

1) Set condition to LV 9, ASA 100, F 4 and LV9, ASA 100 F 16. Adjust to get the exposure tolerance within ± 0.05 EV to rotate VR 1.

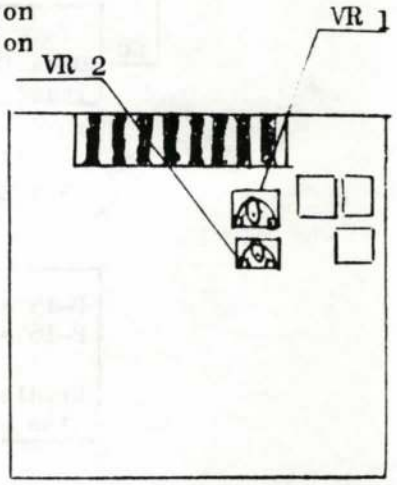
   Clockwise rotation ..... EV minus (−) direction
   Counter-clockwise rotation ..... EV plus (+) direction
   (EV value at F 4 and F 16 should be the same value)

2) Set condition to LV 9, ASA 100, F 4.
   Adjust to rotate VR 2 to get EV value of 0 EV.

3) Set condition to ASA 100, LV 15 and F 11(1/250sec).
   Check whether exposure is within ± 0.3 EV.

4) Set condition to ASA 100, LV 6 and F 5.6 (1/2 sec).
   Check whether exposure is within ± 0.3 EV.

5) Set condition to ASA 400, LV 6 and F 5.6 (1/8 sec).
   Check whether exposure is within ± 0.3 EV.

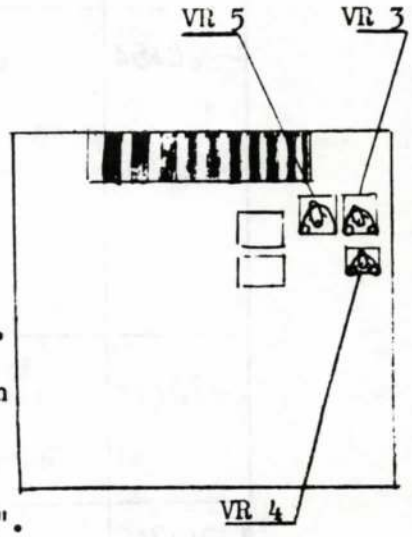


AE Main circuit-II

NOTE: If the adjustments are not possible to the limits specified for the conditions noted for (3) and (4), after adjusting to Zero EV (0 EV) under condition specified for (1), then check again the AUTO Exposure System or replace the AE main circuit-II.

Adjustment the LED Display Indications

The following adjustments must be made after completing adjustments of the exposure at the film plane, as otherwise the display indications may not be correct.
In addition to the AE-II finder on the ETRS body, adjustments will also require the 75mm Zenzanon-E lens, a VR adjusting driver, an EE camera tester (Model ST 70B-1) and either battery or voltage regulator, in the same manner as for the previous adjustment.



AE Main circuit-II

1) Set the brush of VR3, VR4, VR5 at the center. Set condition to ASA 100, LV 6 and F 11 (2sec.). Revolue VR 3 and coincide the LED shutter speed indication to "2S" when the display button is depressed.

2) Set condition to ASA 100, LV 6 and F 5.6(1/2sec.). Revolue VR 4 and coincide the LED indication to "2".

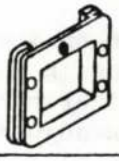
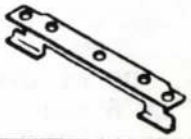
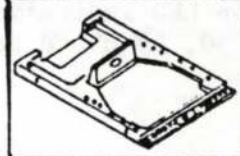
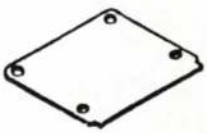
3) Repeat para 1), and 2). Make sure the LED indication turn on at "2S" and "2".

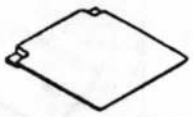
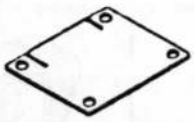
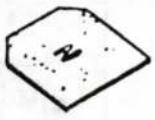
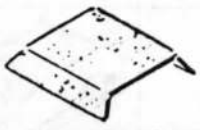
4) Set condition to ASA 100, LV 9 and F 5.6(1/15sec.). Revolue VR 5 and coincide the LED indication to "15".

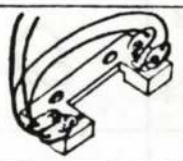
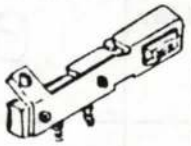
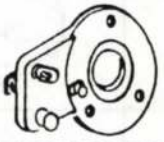
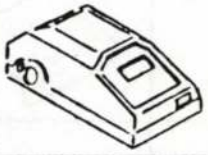
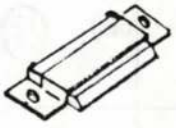
5) Set condition to ASA 100, LV 15 and F 8(1/500sec.). Confirm that the LED indication is "500", when the display button is depressed.

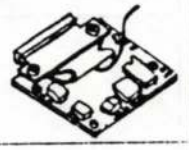
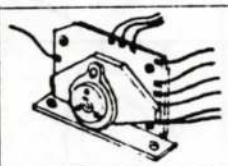
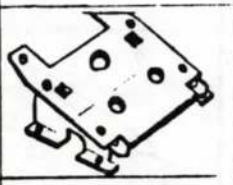
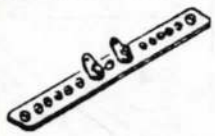
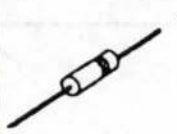
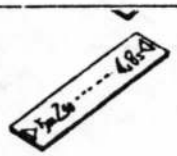
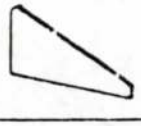
6) Set condition to ASA 400, LV 6 and F 8(1/4sec.). Confirm that the LED indication is "4", when the display button is depressed.

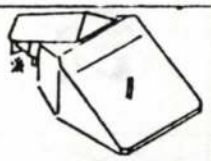
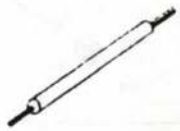
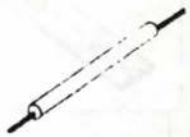
7) Finally, confirm that the LED indication is "2" when conditions are ASA 50, LV 6 and F8(2sec.).

Parts No. 部品番号	Name 名称	Shape 形状	Poaper Unit 個数	Page 頁	Ass'y No. 組立番号	Price (¥) 単価	Remarks 備考
1-220133	Eye piece frame 接眼マスク					25	
1-220154	Attacning metal 接続金		2			30	
1-220192	Eye piece unit attaching screw 接眼止ネジ					20	
1-210240	Selector dial mark バヨネット環指標					5	
1-226000	AE finder base plate-II AEファインダーベース		1			85	
1-222301	AE selector dial AE切換ダイアル					240	
1-222311	AE selector lock button AE切換ロークボタン					60	
1-222373	AE button cover AEベース底板					35	
1-222390	AE cntact piece AEコウ板					10	

Parts No. 部品番号	Name 名称	Shape 形状	Paper Unit 個数	Page 頁	Ass'y No. 組立番号	Price (¥) 単価	Remarks 備考
1-222412	AE contact pin AE接点ピン		9			30	
1-222490	Display button outer frame 表示ボタン外枠					40	
1-222540	Lock button spring AE切換ロックボタンばね					5	
1-222641	Prism holder プリズム押え板					25	
1-222651	Insulating sheet AE回路絶縁シール					10	
1-222660	Main circuit pillar AE回路スペーサー		4			5	
1-226140	Leatherette (Front) AEカバー前部革					15	
1-226180	Leatherette (Upper) AEカバー 上部革					20	
1-226150	Leatherette (Rear) AEカバー後部革					10	
1-226160	Leatherette (Selector lock button) AE切換ボタン革					5	
1-222811	ASA dial unit attaching screw ASAダイアルネジ					60	

Parts No. 部品番号	Name 名称	Shape 形状	Pcs.per Unit 個数	Page 頁	Ass'y No. 組立番号	Price (¥) 単価	Remarks 備考
1-226170	Leatherette (ASA dial unit attaching screw) ASAボタン傘					5	
1-252004	Contact pin spring コネクターバネ		9			5	
1-726150	SPC set -II (w/wire) センサーセット(新)		1			920	
1-722070	Cover 調整カバー					35	
1-722050	ASA dial unit ASAダイアルユニット					400	
1-726390	Display button unit-II 表示ボタンユニット		1			150	
1-722210	ASA lock button unit ASAロックボタンユニット					110	
1-222201	AE top cover AEファインダーカバー					950	
1-726280	Display prism unit -II 表示プリズムユニット		1			800	
1-722250	ASA base plate unit ASAベース板ユニット					450	

Parts No. 部品番号	Name 名称	Shape 形状	Pcs per Unit 個数	Page 頁	Ass'y No. 組立番号	Price 単価	Remarks 備考
1-726330	Main circuit -II (w/display circuit) AE-II回路基板ユニット		1			15,000	
1-726511	AE selector lock plate unit AE切換ロック板(B)		1			40	
1-726500	AE selector unit-II (w/connection cord) AE切換ユニット		1			490	
1-726180	AE prism holder unit -II AEプリズム押Iユニット					80	
1-226110	Circuit hold nut 表示基板台					10	
1-726110	AE contact pin base plate-II AE接点台ビット					800	
1-226470	Limit diode ダイオード					20	
1-226460	AE-II display print AE-II表示プリント					75	
1-223221	Prism hold spacer プリズム押Iスペーサー		2			5	
1-222760	ASA display plate ASA文字板					25	

Parts No. 部品番号	Name 名称	Shape 形状	Pcs.per Unit 個数	Page 頁	Ass'y No. 組立番号	Price (¥) 単価	Remarks 備考
1-722561	AE prism set (new) AEプリズムセット(新)					7,800	
1-223240	ASA lock button plate 指標板取付ネット					10	
1-226060	Display hold nut AE表示指定台(II)		1			10	
1-226190	Connection cord (Yellow L-105) コード(黄色-105)					10	
1-226200	Connection cord (Brown L-105) コード(茶色-105)					10	
1-226310	Connection cord (Violet L-33) コード(紫色-33)					10	
1-226320	Connection cord (Violet L-48) コード(紫色-48)					10	
1-226330	Connection cord (White L-78) コード(白色-78)					10	
1-226340	Connection cord (Blue L-26) コード(青色-26)					10	
1-226350	Connection cord (Yellow L-21) コード(黄色-21)					10	

Parts No. 部品番号	Name 名称	Shape 形状	Pcs.per Unit 個数	Page 頁	Ass'y No. 組立番号	Price 単価	Remarks 備考
I-226360	Connection cord (Gray L-28) コード (灰色・28)					10	
I-226370	Connection cord (Pink L-23) コード (桃色・23)					10	
I-226400	Connection cord (Black L-50) コード (黒色・50)					10	